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### IN THE CLAIMS

Please amend the claims as follows. This listing of claims replaces all prior versions.

1. (Currently amended) A composition comprising a mixture of components, wherein the composition is produced from intestinal and testicular tissue of a male blue crab and wherein said components comprise:

eicosane/eicosanoids  
docasane/docosanoids  
tetracosane/tetracosanoids  
nonacosane  
9-octyl-heptadecane  
pentatriacontane  
hexatriacontane  
19-norpregn-4-ene-3,20-dione  
urs-12-en-28-ol  
1-tetradecanamine  
4,4-dimethylcholestan-3-ol  
nonadecenes  
nonadecanes  
1,3-diethyl urea  
androst-8-en-11-one  
3-benzoquinolinedione  
asparagine  
urethane  
pentacosane/pentacosanoids  
hexacosane/hexacosanoids  
heneicosane/heneicosanoids  
tricosane  
octacosane  
1-hexadecene  
1,3-dimethyl-8-purin-2,6-dione  
imidazoloids  
morphinanones  
docosenes  
heneicosenes  
epinephrine  
traicontane  
quinoline  
pyrazine

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pregnadiene  
4,4-diemthylandrost-5-en-3.beta.ol or  
nortriptyline  
or any combination thereof.

2. (Canceled).

3. (Previously presented) The composition of claim 1, combined with a material that allows for slow release of the composition into an aqueous solution over time.

4. (Previously presented) A method of attracting female blue crabs to a trap, comprising introducing into said trap an amount of the composition of claim 1 effective in attracting female blue crabs into the trap.

5. (New) A composition comprising a homogenous emulsion of testicular material isolated from a male blue crab, wherein the composition has activity in attracting female blue crabs to a trap.

6. (New) The composition of claim 5, further comprising a homogenous emulsion of intestinal material isolated from a male blue crab.

7. (New) A method of attracting female blue crabs to a trap, comprising introducing into said trap an amount of the composition of claim 5 effective in attracting female blue crabs into the trap.

10. (New) A method of attracting female blue crabs to a trap, comprising introducing into said trap an amount of the composition of claim 6 effective in attracting female blue crabs into the trap.